

CLAIMS

1-11
62
What is claimed is:

1. An article comprising a first structure and a second structure, the first structure including a structural portion and an overmold portion, the overmold being formed from a resilient material and molded onto the structural portion, the overmold portion defining a seal portion that is configured to engage the second structure to form a seal between the structural portion and the second structure.

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2. The article of Claim 1, wherein the first structure is an end cap shell, the second structure is a motor housing and the article is a rotary power tool.

3. The article of Claim 1, wherein the overmold portion also retains the second structure in a predetermined location relative to the structural portion.

4. The article of Claim 3, wherein the resilient material is a vibration dampening material that is configured to attenuate vibrations that are transmitted between the structural portion and the second structure.

5. The article of Claim 4, wherein the resilient material is a thermoplastic elastomer.

6. The article of Claim 1, wherein the overmold portion further includes a bumper member that is coupled to an exterior surface of the structural portion, the bumper member being configured to abut the second structure to limit movement of the second structure relative to the structural portion in a predetermined direction.

7. The article of Claim 6, wherein the bumper member is raised from the exterior surface of the structural portion but otherwise conforms to the shape of the structural portion in an area in which the bumper member and the structural portion abut.

8. The article of Claim 6, wherein the overmold portion includes a linking member that links the seal portion and the bumper member together.

9. An article comprising a first structure and a second structure, the first structure having a structural portion and an overmold portion, the overmold portion being formed from a resilient material and molded onto the structural portion, the overmold portion defining an isolator portion that is configured for contacting the second structure and dampening vibrations that are transmitted between the structural portion and the second structure.

10. The article of Claim 9, wherein the first structure is an end cap shell and the second structure is a motor housing.
11. The article of Claim 9, wherein the overmold portion also retains the second structure in a predetermined location relative to the structural portion.
12. The article of Claim 9, wherein the resilient material is formed from a thermoplastic elastomer.
13. The article of Claim 9, wherein the overmold portion further includes a bumper member that is coupled to an exterior surface of the structural portion, the bumper member being configured to abut the second structure to limit movement of the second structure relative to the structural portion in a predetermined direction.
14. The article of Claim 13, wherein the overmold portion includes a linking member that links the isolator portion and the bumper member together.
15. The article of Claim 13, wherein the bumper member is raised from the exterior surface of the structural portion but otherwise conforms to the shape of the structural portion in an area in which the bumper member and the structural portion abut.

16. A hand-held power tool having a trigger, a handle portion and an auxiliary gripping structure, the handle portion being configured to be engaged by a first hand, the trigger coupled to the handle portion and being configured to be operated by the first hand for controlling the operation of the power tool, the auxiliary gripping structure being remote from the handle portion and configured to be engaged by a second hand to aid in controlling the operation of the power tool, the auxiliary gripping structure having a structural portion and an overmold portion, the overmold portion being formed from a resilient material and molded onto the structural portion, the overmold portion being at least partially interposed between the structural portion and the second hand.

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73*

17. The power tool of Claim 16, wherein the resilient material is a vibration dampening material that is configured to attenuate vibrations that are transmitted between the structural portion and the second structure.

18. The power tool of Claim 17, further comprising a driveline having a motor and a transmission, and wherein the overmold portion attenuates vibrations transmitted between the driveline and the structural portion.

19. The power tool of Claim 16, wherein the overmold portion provides a gripping surface for the second hand.

20. The power tool of Claim 16, wherein the power tool is a rotary power tool.

21. The power tool of Claim 16, wherein the overmold portion includes an isolator portion for contacting a structure within an interior portion of the power tool, the isolator portion attenuating vibrations transmitted between the structure and the structural portion.

22. The power tool of Claim 16, wherein the overmold portion includes a seal portion for contacting a structure within an interior portion of the power tool, the seal portion forming a seal between the structure and the structural portion.

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23